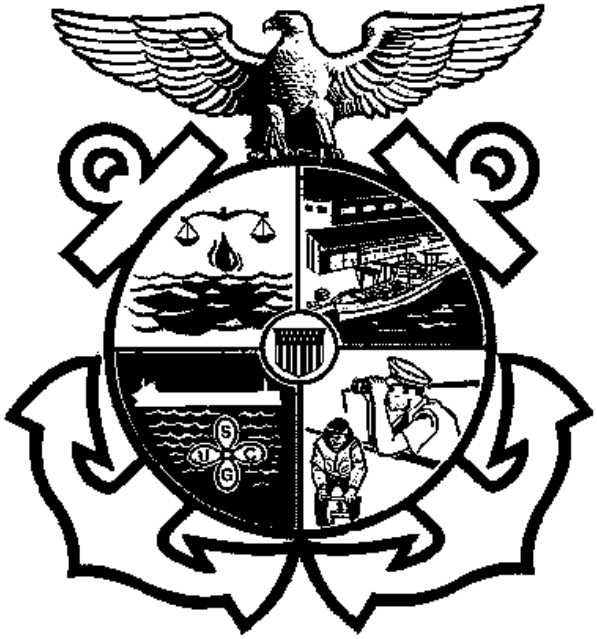
Barge Inspector (BI)



PQS Workbook

BI Qualification
Task Matrix

TSK #	TASK	DATE
AC01	Inspect berthing accommodations.	
AC04	Inspect mess deck spaces.	
AC06	Inspect areas where washers and dryers are installed.	
AC07	Inspect paint lockers.	
AC08	Inspect ladders, railways, and gangways.	
AC10	Inspect heating and cooking equipment.	
CS02	Inspect bulk liquid cargo system.	
CS04	Inspect components installed in designated hazardous locations.	
CS08	Inspect cargo pumproom(s).	
CS09	Test and inspect the emergency shutdown station(s).	
CS10	Inspect cargo tank vents.	
CS11	Inspect closed gauging systems.	
CS26	Inspect the cargo transfer hoses for condition and required markings.	
DD01	Ensure that the vessel’s entire underwater body is clean for examination.	
DD02	Determine whether structural configuration match approved plans.	
DD06	Examine steel hull for damage and defects.	
DD10	Examine critical joint areas.	
DD11	Examine draft marks.	
DD12	Examine load line.	
DD13	Examine drydock plugs for local wastage and proper fit.	
DD22	Examine anchor chains.	
DD23	Complete applicable structural failure reports and obtain CG-2692.	
DD24	Examine freeing ports and scuppers.	
DD27	Examine thruster (bow or stern) and thruster tunnel.	
DD29	Conduct inspection of internal spaces and structures.	
DD31	Evaluate repair proposals and inspect completed repairs.	
EE01	Inspect fireman’s outfit(s).	
EE09	Inspect pyrotechnics.	
ES01	Inspect switchboards.	

BI Qualification
Task Matrix

TSK #	TASK	DATE
ES02	Inspect ship's service generators.	
ES04	Inspect emergency generators.	
ES05	Inspect battery installation.	
ES06	Inspect motor controllers.	
ES07	Ensure lighting systems/fixtures are adequate and meet requirements.	
ES09	Ensure receptacle outlets are properly grounded.	
ES10	Inspect distribution panels.	
ES12	Survey/inspect electrical cable installation.	
ES14	Test/inspect internal communication and control systems.	
ES16	Inspect components installed in designated hazardous locations.	
ES18	Inspect the general alarm system emergency batteries.	
ES19	Perform operational test of remote ventilation shutdowns.	
FF01	Determine amount, type, location of fire protection equipment required.	
FF05	Inspect CO2 systems on a barge.	
FF08	Inspect semi-portable firefighting equipment.	
FF09	Inspect portable firefighting equipment.	
FF13	Witness operational test of fire detection system.	
FP03	Verify that required forms, placards and notices are posted on a barge.	
GT03	Examine ground tackle and related equipment on a barge.	
II04	Review vessel documents and papers on a barge.	
II05	Discuss scope of inspection with owner's representative.	
II06	Obtain CG-2692 for reportable marine casualties.	
II07	Examine gas-free certificate.	
II08	Review hull gaugings and compare with original scantlings.	
II09	Review any outstanding CG-835s and ask if other deficiencies exist.	
LS02	Determine amount/type of lifesaving equipment required on a barge.	
LS05	Inspect life preservers.	
LS06	Inspect ring buoys.	
LS16	Inspect inflatable liferaft installations.	

BI Qualification
Task Matrix

TSK #	TASK	DATE
MI04	Inspect fuel oil service and transfer system.	
MI06	Inspect bilge pumps installation, piping, and valves.	
MI09	Examine potable water system.	
MI12	Observe operational tests of machinery on a barge.	
MI15	Inspect the diesel installation and assembly on a barge.	
MI16	Inspect air starting systems.	
MI17	Inspect hydraulic starting systems.	
MI18	Inspect electric starting systems.	
MI22	Internally examine UPVs requiring internal examination.	
MI23	Externally examine UPVs.	
MI24	Hydrostatically test UPVs requiring hydrostatic testing.	
MI25	Ensure all UPVs are properly equipped with pressure relief valves.	
MI26	Witness pressure relief valve test.	
MI39	Inspect thermal fluid heater.	
NS08	Inspect navigation and signal lights on a barge.	
NT01	Approve NDT method for specific applications.	
NT02	Check certification of NDT technician.	
NT03	Witness NDT in accordance with applicable standards.	
NT04	Evaluate NDT results.	
PP02	Inspect pollution prevention equipment on a barge.	
PP04	Conduct IOPP boarding and survey.	
PP05	Verify MARPOL V compliance.	
RT01	Complete Initial Indoctrination Lesson Plan Series (IILPS).	
RT02	Complete Inspection Department Course.	
VS01	Inspect ventilation system in pumproom(s).	
VS02	Inspect vents to voids, ballast, and portable water tanks.	
VS03	Examine deck openings and vents.	
WI01	Inspect watertight doors.	
WI03	Inspect watertight bulkhead penetrations.	

BI Qualification
Task Matrix

TSK #	TASK	DATE
WI07	Inspect hull and deck openings.	
WI09	Inspect port light covers.	
WR01	Evaluate welding repair proposal.	
WR02	Complete initial visual inspection of weld repair.	
WR03	Complete intermediate visual inspection of weld repair.	
WR04	Complete final visual inspection of weld repair.	
WR05	Witness pressure testing of welded repairs.	

Trainee's OJT Manual has been reviewed and I recommend a training qualification board be scheduled.

Training Officer: _____

Date: _____

Date Qualification Board Completed: _____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
AC01	Inspect berthing accommodations. • Spaces provided of size required by regulations • Appropriate number of berths provided • Proper seating available for PAX's on vessels whose voyages are limited by certificate of inspection to set time periods • Lockers of proper size provided for each berth • Screens provided for ventilation ports on non-air conditioned vessels • Mechanical ventilation/air-conditioning systems operating properly • Adequate number of toilets and washrooms provided for number of persons in crew specified on certificate of inspection, kept in good repair and in a sanitary condition • Lights provided for each berth • Hot water heating piping within the space properly lagged • Electrical hazards • Two means of escape provided from each berthing space and other areas where personnel would normally be employed	_____	_____
AC04	Inspect mess deck spaces. • Reasonable sanitation standards are evident • No excessive grease buildup has accumulated in the grill area and in the grill vent • Chill boxes are operable and reasonably clean • Escape latches or alarm systems on the chill boxes are functioning properly	_____	_____
AC06	Inspect areas where washers and dryers are installed. • Dryer unit is properly vented and no fire hazard due to lint buildup exists • "Jury-rigged wiring" systems for units are employed • Units securely mounted	_____	_____
AC07	Inspect paint lockers. • Required fire protection equipment provided in accordance with applicable regulations and vessel's approved fire safety plan • Space(s) designated constructed of or wholly lined with metal • Space(s) well vented and means provided to secure ventilation if necessary	_____	_____
AC08	Inspect ladders, rails and gangways. • An approved pilot ladder provided and maintained in good repair • Accommodation ladder of sufficient size provided to be used when distance from sea level to vessel's deck is more than 30 feet	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*

- "Rails" are provided on accommodation ladders, when used

AC10 Inspect heating and cooking equipment. _____ _____

- Thermal cutouts for electric space heaters
- Grab rails for electric ranges
- LPG/CNG installed in accordance with regulations

CS02 Inspect bulk liquid cargo system. _____ _____

- Pumprooms and/or pumping equipment:
  - Lighting fixtures and all electrical equipment are explosion proof
  - No dead ended, loose or frayed cabling
  - No jury-rigged wiring, extension cords, etc.
  - Bulkheads gas tight
  - Ladders
  - Ventilation system complete and operating
  - Pumps and controls operational
  - No leaking seals
  - Mechanical and electrical remote operating devices attached and operational
- Cargo piping:
  - Piping
  - Valves
  - Fittings
  - Gaskets
  - Supports
  - Materiel condition of all components
  - Expansion joints
- Gauging and venting system:
  - Type of gauging (open, closed, restricted)
  - Gauging type approved for cargo carried
  - Gauging systems operational
  - High and low level alarms
  - Overfill controls
  - Condition of vent piping and vent masts
  - Vent outlets at proper height
  - Required valves installed and operational
  - Pressure relief valves tested and certified - no signs of tampering
  - Pressure vacuum valves and headers free of corrosion or dirt
  - Flame screens installed and acceptable
- Vapor recovery system

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
CS02 (cont'd.)	• Bulk liquid cargo heating system: – Indicate which tanks – Separate from hotel services for toxic cargoes – Contamination detection available for toxic cargo – System operational • Bulk liquid cargo inerting system • Operational procedures: – Aboard vessel – Procedures in compliance with applicable CFR parts – Transfer system adequately described – Shipping papers/manifest		
CS04	Inspect components installed in designated hazardous locations. • Cable runs inboard and clear of cargo tank openings • Electrical components used in cargo pumproom intrinsically safe • Storage batteries located in cargo handling areas • Lights in pump rooms use gas tight lenses or intrinsically safe units • Electrical components on the weather deck located within ten feet of cargo tank openings, tank vents or doors, explosion proof	_____	_____
CS08	Inspect cargo pumproom(s). • Pumproom access doors open onto the weatherdeck • Ladders and accesses allow individuals wearing breathing apparatus entry • Hoisting system provided from the pump room to the main decks • Discharge pressure gauge for each pump located outside the pump room • Bilge pumping system with remote control and high level alarms provided • Air changed with proper frequency by the power ventilation system	_____	_____
CS09	Test and inspect emergency shutdown station(s). • Minimum number of stations • Stations properly located and marked • Means provided to stop cargo pumps and close valves • Pump and valve shutdowns operate in the prescribed time • Valves may be operated manually and fail safe (closed) • Fusible elements correctly installed • Emergency shutdown controls installed at the cargo control	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
	station		
CS10	Inspect cargo tank vents. • Vent heights adequate and within CFR and IMO requirements • Vents located properly with respect to discharge areas • Drain traps installed • PV valves set to lift at proper pressure	_____	_____
CS11	Inspect closed gauging systems. • High level alarms provided • High level alarms have audible and visual indicators at the cargo control station • Alarm level set within the limits proscribed by IMO or CFRs	_____	_____
CS26	Inspect the cargo transfer hoses for condition and required markings.	_____	_____
DD01	Ensure that the vessel's entire underwater body is clean and exposed for examination (areas in way of blocking excluded).	_____	_____
DD02	Determine whether structural configurations match approved plans.	_____	_____
DD06	Examine steel hull for damage and defects.	_____	_____
DD10	Examine critical joint areas. • Sheer strake • Stringer plate	_____	_____
DD11	Examine draft marks (placement of marks consistent with stability letter and properly scribed).	_____	_____
DD12	Examine load lines (placement of marks consistent with load line certificate and properly scribed).	_____	_____
DD13	Examine drydock plugs for local wastage and fit.	_____	_____
DD22	Examine anchor chains and determine if links are distorted or deteriorated excessively.	_____	_____
DD23	Complete applicable structural failure reports and obtain	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
	CG-2692 for reportable marine casualties.		
DD24	Examine freeing ports and scuppers.	_____	_____
DD27	Examine thruster (bow or stern) and thruster tunnel. • Deterioration and cracks • Erosion of welds • Shaft seal or packing gland leakage	_____	_____
DD29	Conduct inspection of internal spaces and structures for fractured welds, fractured structural members, coating failure, deterioration, and buckled or distorted structure. • Deck beams, underdeck longitudinals, deck girders • Side and bottom longitudinals • Center vertical keel and keelsons • Frames, stiffeners, and brackets • Hatch covers	_____	_____
DD31	Evaluate repair proposals and inspect completed repairs. • Sketch and bill of materials • Materials and welding details same as original • Inserts properly made • Fit up and joint preparation • Back gouging • Weld sequencing • Visual inspection of completed repair • Pressure test repairs (hose, air, hydro)	_____	_____
EE01	Inspect fireman's outfit(s). • Proper number aboard vessel • Outfits correctly stowed • Describe what constitutes a fireman's outfit • What spare equipment is required • Location(s) of fireman's outfits listed on fire safety plan • Location(s) marked in accordance with applicable regulations • Steps been taken to thwart pilfering and do they deny legitimate access to equipment • Communications system to the bridge necessary	_____	_____
EE09	Inspect pyrotechnics. • Proper type equipment provided for vessel being inspected • Equipment provided within time limits for service life • Equipment properly stowed • Persons in charge of lifeboats knowledgeable in use of equipment	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*

ES01 Inspect switchboards. _____ _____

- Nonconductive mat on deck in front of board
- Nonconductive rails on board face
- Nonconductive rails at the rear and sides
- Dripshield on the board's top
- Ground detection indicators working with no grounds indicated
- Meters calibrated and working
- Synchronizing controls working.
- Identification for controls and meters
- Area is dry and clean
- Working space is provided in accordance with regulations
- Overcurrent protection properly labeled

ES02 Inspect ship's service generators. _____ _____

- Generators of a size or arrangement which require overspeed trips
- Operational test of overspeed trips and alarms within specified limits
- If the DC or AC generators operate in parallel, are the reverse power/current trips working
- Guards installed around rotating or live machinery
- Discoloration from overheating apparent
- Filters on air intakes working to keep internals free from dust and dirt
- Windings oily or dirty
- Odd bearing noises present
- Voltage regulated within limits specified by CFR
- Working diesel low lube oil pressure trip and alarms
- Working high temperature detectors and alarms for AC generators
- Nameplates properly in place

ES04 Inspect emergency generator. _____ _____

- Means of starting is provided
- The following alarms/shutdowns are operable:
  - Low lube oil pressure
  - High cooling water temperature
  - Overspeed
  - Fixed firefighting system shutdown
- The generator auto-start circuit functions and the generator can power its full-rated load within 20 seconds and accept the final emergency load within 45 seconds of loss of the normal power supply
- Independent fuel supply is provided, with remote shut-off valve installed and properly marked

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
ES05	Inspect emergency batteries. • Size of installation and required ventilation • Battery box is properly lined • Batteries are secure in the trays • Adequate space is provided over the cells • A means of charging is provided • Conductor overcurrent protection is provided • Ventilation/charger interlocked	_____	_____
ES06	Inspect motor controllers. • Units are installed in suitable cases, or if open type, within limited access enclosure • Wearing parts are accessible • Controls are marked for each motor served • Wiring diagram is affixed to the controller enclosure • Motor controllers are drip-proof/watertight	_____	_____
ES07	Ensure lighting systems and fixtures are adequate and meet regulations. • Passageways and public areas • Machinery spaces • Passenger and crew spaces • Berth lights • Exit lights • Pilot ladders • Navigation • Signaling lights • Lifeboat and liferaft embarkation stations	_____	_____
ES09	Ensure receptacle outlets have grounding poles and are properly grounded.	_____	_____
ES10	Inspect distribution panels. • Circuit directory provided • Amperage ratings of the protective devices in accordance with required circuit directory • Panelboard blanks installed, where necessary	_____	_____
ES12	Survey electrical cable installation and determine: • Vertical and horizontal supports properly spaced • Radius of the bends exceed CFR specifications • Portable cables used for unauthorized purposes • Acceptable materials used • Hazardous conditions exist (jury rigs, dead end cables, splices, etc.)	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
ES14	Test internal communication and control systems and ensure the following systems work properly. • General alarms (bells and contractors) • Sound powered phones to all required stations • Engine order telegraph and wrong direction alarm • Public address system • Engineer's assistance needed alarm • Engineer's call system • Fire detection/fire alarm system • Refrigerated space alarm system	_____	_____
ES16	Inspect components installed in designated hazardous locations and ensure explosion proof installation. • Fuel purifier rooms • Paint locker • Cargo area • Pumprooms	_____	_____
ES18	Inspect the general alarm system emergency batteries.	_____	_____
ES19	Inspect ventilation systems and perform operational test of alarms and remote ventilation shutdowns.	_____	_____
FF01	Determine amount, type and location of fire protection equipment required. • By the vessel's Certificate of Inspection • By the respective regulations	_____	_____
FF05	Inspect fixed CO_2 systems on a barge. • Obtain servicing reports • Bottles underweight • Flexible loops serviced and tested • Diffuser heads clear • Access to CO_2 room free of obstruction • Hydrostatic test required by regulations • Instructions posted	_____	_____
FF08	Inspect semi-portable fire fighting equipment. • Installation approved • System serviceable • Instructions posted • Correct type and amount on hand • Markings correct	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
FF09	Inspect portable firefighting equipment. • Fire extinguishers approved • Each unit serviceable • Adequate spare charges provided • Correct type and amount on hand • Distributed per fire control plan • Markings correct • Servicing properly logged	_____	_____
FF13	Witness operational test of fire detection system. • System serviceable • All sensors free of obstructions and functioning • Alarms and indicators functioning correctly • Required instructions and diagrams provided • Markings correct	_____	_____
FP03	Verify that the required forms, placards, and notices are posted on a barge. • Pollution/MARPOL: – Placard – Waste management plan • Coast Guard forms: – CG-841: Certificate of Inspection – CG-3372: Oil Pollution • Markings: conspicuous and legible	_____	_____
GT03	Verify that ground tackle and related equipment is in satisfactory condition on a barge. • Anchors • Chain • Winch and foundations • Anchor chain stoppers • Anchor handling davits	_____	_____
II04	Review vessel documents listed in MSIS and VFLD and papers on a barge.	_____	_____
II05	Discuss scope of inspection with owner's representative. Decide on general sequence of inspection.	_____	_____
II06	Obtain CG-2692 for reportable marine casualties/ structural failure report.	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
II07	Examine gas-free certificate issued by an NFPA-certified marine chemist for hot work and/or confined space entry. • Information on the gas-free certificate meet the requirements of NFPA Standard 306 and Coast Guard confined space entry/benzene exposure policy • Gas-free certificate been maintained by a designated competent person and records kept as required by OSHA regulations • Marine chemist certified by NFPA • Review benzene and confined space entry policies	_____	_____
II08	Review hull gaugings and compare with original scantlings. Consider spot gauging by NDT or drilling.	_____	_____
II09	Review any MSIS inspection notes and outstanding deficiencies (CG-835s). Ask owner's representative if any other deficiencies exist.	_____	_____
LS02	Determine amount and type of lifesaving equipment required on a barge. • Certificate of Inspection • CFRs	_____	_____
LS05	Inspect life preservers. • Properly equipped with lights, whistles and reflective tape • Approved for intended service • Sufficient serviceable units aboard and properly stowed • Properly marked	_____	_____
LS06	Inspect ring buoys. • Approved for intended service • Properly colored and marked • Correctly equipped with waterlights and line • Serviceable • Sufficient number of ring buoys are aboard	_____	_____
LS16	Inspect inflatable liferaft installations. • Serviced annually • Last servicing date at approved facility • Properly secured in the cradle designed for them • Hydrostatic releases serviced • Alternative means of securing meets criteria promulgated in NVIC 4-86 • Suspension test • Davit weight test • Operating instructions posted at embarkation station	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
MI04	Inspect fuel oil service and transfer system. • Determine condition of piping and manifolds • Determine condition of fuel oil HP and LP strainers • Ensure fuel oil pump relief pump valves discharge to suction side of fuel oil pumps • Ensure no excessive fuel oil leakage exists • Ensure that spray shields are installed on flanged joints • Witness operation of fuel oil pumps • Ensure instrumentation is operable • Externally examine fuel oil heaters • Test remote operated fuel oil system valves • Determine condition of fuel oil tank vent lines and flame screens	_____	_____
MI06	Inspect bilge pumps installation, piping, and valves. • System capable of pumping from any watertight compartment except ballast, oil and water tanks • Standing water drains to suction pipes • Bilge manifold has independent bilge suction control and is properly marked • Suction strainers are installed • Emergency bilge suction installed, where required • Instrumentation operable	_____	_____
MI09	Examine potable water system. • Dedicated tanks; treated or coated • Tanks ventilated with insect screens installed • Water pump(s) and pressurization system operable • Pressure tank installation	_____	_____
MI12	Determine what operational tests are required; witness tests and state if results are satisfactory on a barge. • Overspeed trips • Low lube oil shutdowns and alarms • High coolant temperature alarm	_____	_____
MI15	Inspect the diesel installation and assembly on a barge, paying particular attention to the following: • Fuel and lube oil fittings (checking for leakage) • Instrumentation • Guards over rotating machinery • Exhaust system: – Leaks – Lagging – Water cooling system • Air intakes	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
	• Crankcase vents (clear)		
MI16	Inspect air starting systems. • Air receivers • Piping • Compressors	_____	_____
MI17	Inspect hydraulic starting systems. • Pumps and strainers • Piping • Accumulators	_____	_____
MI18	Inspect electrical starting systems.	_____	_____
MI22	Internally examine unfired pressure vessels requiring internal examination. • Check for corrosion, scale, pitting, cracks and erosion • Examine welded connections internally	_____	_____
MI23	Externally examine unfired pressure vessels. • Pressure gauge • Evidence of structural damage • Data plate legible • Foundations structurally sound • Attachments secure	_____	_____
MI24	Hydrostatically test unfired pressure vessels requiring hydrostatic testing. • Determine MAWP • Observe pressure test	_____	_____
MI25	Ensure all unfired pressure vessels are properly equipped with pressure relief valves in accordance with regulations.	_____	_____
MI26	Witness pressure relief valve test. • MAWP not exceeded • Valve seats tightly • Capacity not exceeded • Correct valve type • Hand lifting device	_____	_____
MI39	Inspect thermal fluid heater. • External fittings • Mountings opened or removed if deemed necessary • Hydrostatic test	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
	• Relief valve tested • Automation tested		
NS08	Inspect navigation and signal lights on a barge. • Properly functioning • Correctly placed in accordance with applicable regulations • Certificate of alternative compliance on board • Properly installed battery-operated lights	_____	_____
NT01	Approve NDT method for specific applications.	_____	_____
NT02	Check the certification of the NDT technician.	_____	_____
NT03	Witness NDT in accordance with applicable standards. • Dye penetrant • Magnetic particle • Radiography • Ultrasonics	_____	_____
NT04	Evaluate NDT results.	_____	_____
PP02	Inspect pollution prevention equipment and documentation on a barge. • Discharge containment in place and of the proper type and size for cargo, fuel, or lube oil, as needed • Oil discharge prohibition placard • No fuel or dirty oil is carried in a prohibited oil space • Proper documentation for the person(s) assigned to vessel who deal directly with oil transfer to and from vessel • Required transfer procedures are correct, complete, and available to assigned personnel as required • Emergency shutdown system(s) function properly • Adequate communication between participants in transfer operations and sufficient lighting at critical work stations provided where specified by regulation • Required records for tests and inspections of oil transfer hoses and equipment and declarations of inspection available, current, and correct, where required • Scupper plugs available for use during oil transfer operations	_____	_____
PP04	Conduct an IOPP boarding and survey, and verify that required equipment is on board and in proper working order. • Segregated ballast tanks • Dedicated clean ballast tanks	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
	• Slop tanks • Monitoring equipment		
PP05	Verify MARPOL V compliance. • Check waste management plan • Plastics retained or incinerated • Placards posted	_____	_____
RT01	Complete Initial Indoctrination Lesson Plan Series (IILPS).	_____	_____
RT02	Complete Inspection Department Course.	_____	_____
VS01	Inspect ventilation system in pumproom(s).	_____	_____
VS02	Inspect vents to voids, ballast, and portable water tanks. • Condition of vent lines • Insect screen provided and in good repair • Means of closure provided and operable	_____	_____
VS03	Examine deck openings and vents. • Access covers bolted securely • Access cover gaskets in good condition • Vent closures	_____	_____
WI01	Inspect watertight doors. • Knife edges intact and in good repair; no excessive paint buildup • Gasket material installed in channel is in good condition and not painted • Knife edges and channel meet as designed when door closed • Hinges and hinge bolts in good condition; no sagging of door due to rounded out hinges or worn hinge bolts • Dogs are all operable; grease fittings still usable • Dogging wedges not excessively worn and fit up satisfactory • Quick-closing gear operable and adequate closure achieved • Any port lights installed in watertight doors use wire mesh reinforced glass • Dogging wrench provided in vicinity of watertight door(s)	_____	_____
WI03	Inspect watertight bulkhead penetrations. • Penetrations properly sealed to maintain watertight integrity through use of devices such as stuffing tubes • Sealant used, if stuffing tubes are employed, is non-flammable product designed for such use and is approved	_____	_____
WI07	Inspect hull and deck openings. • Dogs, gaskets and knife edges maintained as previously described for watertight doors, on any hull or deck openings • Cargo hatches structurally sound and watertight; hatches	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
	observed in secured position to verify • Sideports and Ro-Ro Ramps, if applicable, structurally sound and watertight		
WI09	Inspect port light covers. • Port lights at the main deck level have a cover installed • Dogs free on each shutter • Shutters restricted in their movement from stowed-to-closed position	_____	_____
WR01	Evaluate welding repair proposal. • Plan or sketch submitted with bill of materials • Configuration of repair acceptable • Material specification same as existing or equivalent • Method of joining acceptable	_____	_____
WR02	Complete initial visual inspection of weld repair. • Examine fit up in accordance with approved weld procedures • Examine joint preparation in accordance with approved weld procedures • Verify materials (base, filler, gas) in accordance with approved weld procedures • Verify proper preheat temperature/time in accordance with approved weld procedures • Evaluate weather conditions • Check welding equipment in accordance with approved weld procedures	_____	_____
WR03	Complete intermediate visual inspection of weld repair. • Check back gouging for full penetration weld • Check proper cleaning between weld passes • Check interpass temperatures in accordance with approved procedures • Verify that proper weld sequencing is followed • Evaluate weather conditions	_____	_____
WR04	Complete final visual inspection of weld repair. • Perform dry search to ensure welding complete and followed weld details • Perform surface inspection of welds for defects • Verify proper postheat temperature/time in accordance with approved weld procedures	_____	_____
WR05	Witness pressure testing of welded repairs. • Witness hose testing • Witness air testing	_____	_____

BI Tasks

Task Number	*OJT Task*	*Date Completed*	*Verifying Officer*
	• Witness hydrostatic testing		

DATE	LOCATION	VESSEL NAME	VESSEL CLASS	INSPECTION TYPE	LEAD INSPECTOR

NOTES

DATE	LOCATION	VESSEL NAME	VESSEL CLASS	INSPECTION TYPE	LEAD INSPECTOR

NOTES

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NOTES